

10/01
1048 U.S. PTOPlease type a sign (+) inside this box →

Approved for use through 10/31/2002 OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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A

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages : 635]
(preferred arrangement set forth below)
 - Descriptive title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets]
5. Oath or Declaration [Total Pages 2]
 - a. Newly executed (original)
 - b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
 - i. DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76 [2 pages].

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-Part (CIP) of prior application No: /

Prior application information: Examiner: _____ Group/Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

Customer Number or Bar Code Label 22195 or Correspondence address below

| | | | | |
|-------------------|-------------------------|-----------|--|---|
| NAME | | | | |
| ADDRESS | | | | |
| CITY | | STATE | | ZIP CODE |
| COUNTRY | | TELEPHONE | | FAX |
| NAME (Print/Type) | Michele M. Wales | | | Registration No. (Attorney/Agent) <u>43,975</u> |
| SIGNATURE | <u>Michele M. Wales</u> | | | Date <u>8/10/10</u> |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

Complete if Known

FEE TRANSMITTAL
for FY 2001

Patent fees are subject to annual revision.

| | |
|----------------------|--------------|
| Application Number | Unassigned |
| Filing Date | Herewith |
| First Named Inventor | Rosen et al. |
| Examiner Name | Unassigned |
| Group Art Unit | Unassigned |

Total amount of payment \$1,132.00

METHOD OF PAYMENT (CHECK ONE)

1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:Deposit Account Number 08-3425
Deposit Account Human Genome Sciences, Inc.
Name Charge Any Additional Fee Required
Under 37 CFR §§ 1.16 and 1.17 Applicant claims small entity status

See 37 CFR 1.27

 Payment Enclosed:
 Check Credit Card Money Order Other
Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 08-3425

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee | Entity Fee | Small Entity Fee | Entity Fee | Fee Description | Fee Paid |
|------------------|------------|------------------|------------|------------------------|----------|
| 101 | 710 | 201 | 355 | Utility filing fee | \$710.00 |
| 106 | 320 | 206 | 160 | Design filing fee | |
| 107 | 490 | 207 | 245 | Plant filing fee | |
| 108 | 710 | 208 | 355 | Reissue filing fee | |
| 114 | 150 | 214 | 75 | Provisional filing fee | |
| Subtotal (1) | | | | | \$710.00 |

2. EXTRA CLAIM FEES

| Large Entity Fee | Entity Fee | Small Entity Fee | Entity Fee | Fee from below | Fee Paid |
|--------------------|------------|------------------|------------|----------------|----------|
| Total claims | 24 | - 20** | 4 | \$18.00 | \$ 72.00 |
| Indep. claims | 4 | - 3** | 1 | \$80.00 | \$ 80.00 |
| Multiple Dependent | 1 | | 1 | \$270.00 | \$270.00 |

| Large Entity Fee | Entity Fee | Small Entity Fee | Entity Fee | Fee Description |
|------------------|------------|------------------|------------|---|
| 103 | 18 | 203 | 9 | Claims in excess of 20 |
| 102 | 80 | 202 | 40 | Independent claims in excess of 3 |
| 104 | 270 | 204 | 135 | Multiple dependent claim |
| 108 | 80 | 209 | 40 | **Reissue independent claims over original patent |
| 110 | 18 | 210 | 9 | **Reissue claims in excess of 20 and over original patent |
| Subtotal (2) | | | | \$422.00 |

Submitted By

Name (Print/Type) Michele M. Wales

Signature: *Michele M. Wales*

Complete (if applicable)

Registration No.: 43,975

Telephone (301) 610-5772

Date 8/10/01

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Rosen et al.

Attorney Docket No.: PA106

Application Serial No.: Unassigned

Art Unit: Unassigned

Filed: Herewith

Examiner: Unassigned

Title: Nucleic Acids, Proteins and Antibodies

TRANSMITTAL AND SUBMISSION UNDER
37 C.F.R. §§ 1.824 and 1.52(e)

Commissioner For Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.821(e) and 1.824, Applicants submit herewith a Sequence Listing satisfying the computer-readable format requirements on a compact disc (CD-R) labeled "CRF." Applicants submit concurrently herewith a Statement Under 37 C.F.R. § 1.821.

Additionally, in accordance with 37 C.F.R. §§ 1.52(e), 1.821, and 1.823, Applicants submit herewith a Sequence Listing as an electronic document on two identical compact discs (CD-Rs). Applicants certify under 37 C.F.R. § 1.52(e)(4) that these two compact discs, labeled "Copy 1" and "Copy 2," are identical. These compact discs, formatted for an IBM-PC machine and compatible with the MS-Windows operating system, contain the following file:

1. Name of File: PA106SEQLIST.txt
2. Size: 3,120,732 bytes
3. Date of Creation: August 8, 2001

Respectfully submitted,

Dated: Aug 10, 2001


Michele M. Wales (Reg. No. 43,975)
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Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Rosen et al.

Attorney Docket No.: PA106

Application Serial No.: Unassigned

Art Unit: Unassigned

Filed: Herewith

Examiner: Unassigned

Title: Nucleic Acids, Proteins and Antibodies

STATEMENT UNDER 37 C.F.R. § 1.821(f)

Commissioner For Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.821(f), Applicants hereby certify that the Sequence Listing information recorded in computer-readable form and submitted herewith is identical to the written (on compact disc) Sequence Listing submitted herewith.

Respectfully submitted,

Dated: Aug 10, 2001

Michele M. Wales
Michele M. Wales (Reg. No. 43,975)
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